

WARREN COUNTY SCHOOL DISTRICT

PLANNED INSTRUCTION

COURSE DESCRIPTION

Course Title: Science 2

Course Number: 08233

Course Prerequisites: None

Course Description: Students will develop an understanding of what plants need to grow and how plants depend on animals for seed dispersal and pollination. Students will compare the diversity of life in different habitats and observe properties of materials through analysis and classification. Students will apply their understanding of the idea that wind and water can change the shape of the land to compare design solutions to slow or prevent such change. Students will be able to use information and models to identify and represent the shapes and kinds of land and bodies of water in an area and where water is found on Earth.

Suggested Grade Level: Grade 2

Length of Course: Two Semesters

Units of Credit: None

PDE Certification and Staffing Policies and Guidelines (CSPG) Required Teacher Certifications:

CSPG 69 or Elementary K-6

To find the CSPG information, go to [CSPG](#)

Certification verified by the WCSD Human Resources Department: ☒ Yes ☐ No

WCSD STUDENT DATA SYSTEM INFORMATION

Course Level: Academic

Mark Types: Check all that apply.

☒ F – Final Average ☒ MP – Marking Period ☐ EXM – Final Exam

GPA Type: ☒ GPAEL-GPA Elementary ☐ GPAML-GPA for Middle Level ☐ NHS-National Honor Society

☐ UGPA-Non-Weighted Grade Point Average ☐ GPA-Weighted Grade Point Average

State Course Code: 03232

To find the State Course Code, go to [State Course Code](#), download the Excel file for SCED, click on SCED 6.0 tab, and choose the correct code that corresponds with the course.

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TEXTBOOKS AND SUPPLEMENTAL MATERIALS

Board Approved Textbooks, Software, and Materials:

Title: Inspire Science
Publisher: McGraw Hill
ISBN #: 978-0-07-678002-0
Copyright Date: 2017
WCSD Board Approval Date: 12/03/2018

Supplemental Materials: STEM Lab activities and science kits

Curriculum Document

WCSD Board Approval:

Date Finalized: 7/19/2022
Date Approved: [Click or tap to enter a date.](#)
Implementation Year: 2023/2024

SPECIAL EDUCATION, 504, and GIFTED REQUIREMENTS

The teacher shall make appropriate modifications to instruction and assessment based on a student's Individual Education Plan (IEP), Chapter 15 Section 504 Plan (504), and/or Gifted Individual Education Plan (GIEP).

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SCOPE AND SEQUENCE OF CONTENT AND CONCEPTS

Marking Period 1

- Earth and Space Sciences: Earth's Place in the Universe

Marking Period 2

- Earth and Space Sciences: Earth's Systems
- Life Science: Ecosystems

Marking Period 3

- Life Science: Biological Evolution

Marking Period 4

- Physical Science: Matter and its Interactions

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Standards/Eligible Content and Skills

Performance Indicator	PA Core Standard and/or Eligible Content	Marking Period Taught
Use information from several sources to provide evidence that Earth events can occur quickly or slowly.	3.3.2.A	MP1
Compare multiple solutions designed to slow or prevent wind or water from changing the shape of the land.	3.3.2.B	MP1
Plan and carry out an investigation to address an issue in the local environment and community.	3.4.K-2.D	MP1
Demonstrate essential skills of the engineering design process.	3.5.K-2.M	MP1,MP2, MP3, MP4
Demonstrate that designs have requirements.	3.5.K-2.T	MP1,MP2, MP3, MP4
Develop a model to represent the shapes and kinds of land and bodies of water in an area.	3.3.2.C	MP2
Obtain information to identify where water is found on Earth and that it can be solid or liquid.	3.3.2.D	MP2
Discuss that all designs have different characteristics that can be described.	3.5.K-2.P	MP2, MP4
Apply skills necessary for making in design.	3.5.K-2.Q	MP2, MP4
Apply design concepts, principles, and processes through play and exploration.	3.5.K-2.S	MP2, MP3, MP4
Illustrate that there are different solutions to a design and that none are perfect.	3.5.K-2.O	MP2, MP4
Plan and conduct an investigation to determine if plants need sunlight and water to grow.	3.1.2.A	MP2
Develop a simple model that mimics the function of an animal in dispersing seeds or pollinating plants.	3.1.2.B	MP2
Make observations of plants and animals to compare the diversity of life in different habitats.	3.1.2.C	MP3
Analyze how things work.	3.5.K-2.N	MP3, MP4
Explain that design is a response to wants and needs	3.5.K-2.U	MP3
Plan and conduct an investigation to describe and classify different kinds of materials by their observable properties.	3.2.2.A	MP4
Analyze data obtained from testing different materials to determine which materials have the properties that are best suited for an intended purpose.	3.2.2.B	MP4
Make observations to construct an evidenced-based account of how an object made of a small set of pieces can be disassembled and made into a new object.	3.2.2.C	MP4

ASSESSMENTS

PDE Academic Standards, Assessment Anchors, and Eligible Content: The teacher must be knowledgeable of the PDE Academic Standards, Assessment Anchors, and Eligible Content and incorporate them regularly into planned instruction.

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Formative Assessments: The teacher will utilize a variety of assessment methods to conduct in-process evaluations of student learning.

Effective formative assessments for this course include: center activities, cooperative learning, activities, games, online activities, oral responses, teacher observations, writing, and worksheets.

Summative Assessments: The teacher will utilize a variety of assessment methods to evaluate student learning at the end of an instructional task, lesson, and/or unit.

Effective summative assessments for this course include: performance assessments, projects, tests, writing, and quizzes.